

# DL-Alanine, N-methyl-N-((1R)-(-)-menthyloxycarbonyl)-, tetradecyl ester

InChI: C29H55NO4  
InChIKey: HAEWHPAXWSXCMR-UHFFFAOYSA-N  
Formula: C29H55NO4  
SMILES: CCCCCCCCCCCCCOC(=O)C(C)N(C)C(=O)OC1CC(C)CCC1C(C)C  
Mol. weight [g/mol]: 481.75

## Physical Properties

Property code	Value	Unit	Source
gf	-159.61	kJ/mol	Joback Method
hf	-1060.88	kJ/mol	Joback Method
hfus	66.39	kJ/mol	Joback Method
hvap	99.54	kJ/mol	Joback Method
log10ws	-8.63		Crippen Method
logp	8.148		Crippen Method
mvol	433.470	ml/mol	McGowan Method
pc	708.46	kPa	Joback Method
rinpol	3034.00		NIST Webbook
rinpol	3034.00		NIST Webbook
tb	1037.27	K	Joback Method
tc	1278.41	K	Joback Method
tf	562.28	K	Joback Method
vc	1.645	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1589.33	J/molxK	1037.27	Joback Method
cpg	1609.92	J/molxK	1077.46	Joback Method
cpg	1628.08	J/molxK	1117.65	Joback Method
cpg	1643.89	J/molxK	1157.84	Joback Method
cpg	1657.43	J/molxK	1198.03	Joback Method
cpg	1668.78	J/molxK	1238.22	Joback Method
cpg	1678.00	J/molxK	1278.41	Joback Method

# Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U392801&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392801&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvp:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinp:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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